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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,914	10/30/2003	Kazuaki Tashiro	03560.003021.1	5646
5514 75	590 10/28/2005		EXAM	INER
FITZPATRIC	K CELLA HARPER & S	HO, ALLEN C		
30 ROCKEFEL NEW YORK, 1			ART UNIT	PAPER NUMBER
11211 10144, 1			2882	
			DATE MAILED: 10/28/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

				H1			
		Application No.	Applicant(s)				
Office Action Summary		10/695,914	TASHIRO ET AL.				
		Examiner	Art Unit				
		Allen C. Ho	2882				
The MAILING Period for Reply	G DATE of this communication a	appears on the cover she	eet with the correspondence add	Iress -			
WHICHEVER IS LC - Extensions of time may be after SIX (6) MONTHS fr - If NO period for reply is s - Failure to reply within the Any reply received by the	ONGER, FROM THE MAILING be available under the provisions of 37 CFR om the mailing date of this communication.	DATE OF THIS COMN 1.136(a). In no event, however, i od will apply and will expire SIX (6 tute, cause the application to beca	may a reply be timely filed 6) MONTHS from the mailing date of this conome ABANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to	o communication(s) filed on <u>09</u>	August 2005.					
2a) This action is	FINAL. 2b)⊠ T	his action is non-final.					
3) Since this ap	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in acc	ordance with the practice unde	r Ex parte Quayle, 193	5 C.D. 11, 453 O.G. 213.				
Disposition of Claims							
4)⊠ Claim(s) 20 is	s/are pending in the application	ı.					
• • • • • • • • • • • • • • • • • • • •	ove claim(s) is/are withd		n.				
5) Claim(s)	is/are allowed.						
6)⊠ Claim(s) <u>20</u> is	s/are rejected.						
7) Claim(s)	_ is/are objected to.						
8) Claim(s)	_ are subject to restriction and	d/or election requiremer	ıt.				
Application Papers							
9)☐ The specificat	ion is objected to by the Exami	iner.					
10) The drawing (s	s) filed on <u>30 October 2003</u> is/a	re: a) accepted or b)⊠ objected to by the Examine	ır.			
Applicant may	not request that any objection to t	he drawing(s) be held in a	beyance. See 37 CFR 1.85(a).				
<u> </u>		·	awing(s) is objected to. See 37 CFF ached Office Action or form PTC				
Priority under 35 U.S.	C. & 119						
<u>-</u>	ent is made of a claim for forei	an priority under 35 U.S	S.C. § 119(a)-(d) or (f).				
• • • • • • • • • • • • • • • • • • • •	some * c) None of:	3,	(-)				
· ·	d copies of the priority docume	ents have been received	i .				
	2. Certified copies of the priority documents have been received in Application No						
3. Copies	of the certified copies of the p	riority documents have	been received in this National S	Stage			
applica	tion from the International Bure	eau (PCT Rule 17.2(a)).					
* See the attache	ed detailed Office action for a l	ist of the certified copies	s not received.				
Attachment(s)		🗖 :					
 Notice of References (Notice of Draftsperson 	Cited (PTO-892) 's Patent Drawing Review (PTO-948)		rview Summary (PTO-413) er No(s)/Mail Date				
	Statement(s) (PTO-1449 or PTO/SB/		ce of Informal Patent Application (PTO-	-152)			

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, an imaging element that comprises a first planarization layer covering the external terminal, a second planarization layer on the first planarization layer, and a substrate on the second planarization layer via an adhesive layer must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 20 is objected to because of the following informalities:

It is recommended that the last step be replaced by --forming a substrate, on which a scintillator is formed, on said second planarization layer via an adhesive layer.--

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:.

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claim 20 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 20 recites a method that comprises the steps of forming a first planarization layer which cover an external terminal and forming a second planarization layer on the first planarization layer. However, this method is not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The applicants disclosed a method that comprises the step of forming a first planarization layer, which covers an external terminal (paragraph [0056]). However, the applicants did not disclose a step of forming a second planarization layer on the first planarization layer (Fig. 5). Although the applicants disclosed a

step of forming a second planarization layer (1062) on the first planarization layer (1061), the first planarization layer does not cover the external terminal (Figs. 10 and 11).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claim 20 is rejected under 35 U.S.C. 102(e) as being anticipated by Kajiwara *et al.* (U. S. Patent No. 6,800,857 B2).

With regard to claim 20, Kajiwara et al. disclosed a method of manufacturing a radiation imaging apparatus comprising: a plurality of imaging elements (1A) comprising each a plurality of pixels (101) and an external terminal (5), wherein a lead (401) constituting the external terminal is extended to the side opposite to a light receiving surface each of the image element through a space between the adjacent imaging elements; comprising the following steps of: forming the first planarization layer (6) which covers the external terminal, on the light receiving surface and covering; forming the second planarization layer (2A) on the first planarization layer; and forming a substrate which a scintillator (3) is formed on the second planarization layer via a adhesive layer (7).

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Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 8. Claim 20 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 10, 14, and 18 of U.S. Patent No. 6,671,347 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 20 recites method steps that are obvious in view of claims 1, 10, 14, and 18 of U. S. Patent No. 6,671,347 B2.
- U. S. Patent No. 6,671,347 B2 claims a radiation imaging apparatus comprising: a first planarization layer on the light receiving surface to be positioned at the same height as the external terminal (claim 10); a second planarization layer on the first planarization layer formed on the external terminal and the first planarization layer (claim 10); and a substrate, on which a scintillator is formed (claim 18), on the second planarization layer via an adhesive layer (claim 14).

Although claim 10 does not claim a first planarization layer that covers the external terminal, claim 10 does not exclude this possibility. This arrangement is supported by claim 1, which claims a wavelength converter formed on the plurality of spaced apart imaging elements

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and the external terminal through a planarization layer, i. e., the external terminal is covered by a

first planarization layer.

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to provide a first planarization layer that covers the external terminal, since a

person would be motivated to provide a planarized surface to support a scintillator either at the

first planarization layer or at the second planarization layer.

Response to Arguments

9. Applicant's arguments, filed 05 July, with respect to claim 20 have been fully considered

and are persuasive. The rejection of claim 20 under 35 U.S.C. 112, first paragraph, has been

withdrawn.

10. Applicant's arguments, filed 05 July, with respect to claim 20 have been fully considered

and are persuasive. The rejection of claim 20 under 35 U.S.C. 112, second paragraph, has been

withdrawn.

11. Applicant's arguments filed 05 July 2005 have been fully considered but they are not

persuasive.

With regard to the drawings, the applicants argue that Fig. 5 shows an external terminal

(120) covered by a first planarization layer (105). This argument is not persuasive. Fig. 5 does

not show a second planarization layer on the first planarization layer, nor does it show an

adhesive layer between a substrate (106) and a scintillator (107) as claimed in claim 20. The

objection is being maintained.

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With regard to the 102(e) rejection, the applicants argue that U. S. Patent No. 6,800,857

B2 is not prior art because they claim the filing date of Japanese Application No. 2001-132349.

This argument is not persuasive. The applicants are not entitled to this priority date because the

claimed subject matter is not disclosed on this date. Therefore, the rejection is being maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The

examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen C. Ho

Primary Examiner

llen C. Ho

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